

# Bhavya Modi

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## Skills

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Languages: Java, Python, HTML/CSS, JavaScript, React, C, C++, C#, SQL, AWS, PHP, Turing, Racket

Tools/frameworks: JUnit 4, JUnit 5, Mockito, JNDI, JDBC, Bash, SVN, Linux, git, github

## Experience

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### Junior Software Developer / CMiC

June 2022 - Sept 2022, 4850 Keele St, North York, ON M3J 3K1

- Worked with the ADF/Tools team to develop software that assisted programmers at CMiC and participated in daily meetings which utilized communication and listening skills
- Wrote high quality code through the process of code review and the use of SonarQube, demonstrating the ability to accept feedback
- Exposure to industry practices such as Software Testing Life Cycle (STLC), creating and reporting unit tests, and documentation, allowing me to adapt quickly to new environments.
- Learned and utilized essential debugging techniques used in the industry including Logging and Breakpoints that require being detail oriented and problem solving skills
- Developed test cases for SQL functions used at runtime on a web application with frameworks such as JUnit and Mockito. This also required server side technologies such as SQL, JDBC and JNDI, which gave an opportunity to apply newly learnt concepts
- Researched and prepared a presentation about JUnit 5 testing framework to the team which will be used to transition away from the previous JUnit 4 testing framework as well as be implemented into future code development. Ultimately, gaining valuable presentation and research skills.

## Education

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### University Of Waterloo & Wilfrid Laurier University / Bachelors of Computer science (BCS) & Bachelors of Business administration (BBA) Double Degree Program

Sept 2021 - Aug 2026, Waterloo, ON

- Relevant coursework: Data structure (trees, heaps, graphs, queues, stacks, linked list), Object oriented programming, scripting, Algorithms
- Scholarships: President's gold scholarship achieved with a +95% average in highschool

## Projects

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### Pocket CPR / Swift, React,

- The team developed a prototype iOS Apple Watch app at the SimpleHacks hackathon (2nd place) which assists users in performing CPR by having a ring timer as well as by creating a vibration, letting the user know when to compress

### Chess/ C++, Git, GUI

- Developed a fully functioning game of chess that included functions such as castling, en passant and undo features by utilizing OOP concepts such as inheritance, polymorphism, encapsulation, abstraction, smart pointers and design patterns.
- Displayed on a graphical interface using X11, a GUI framework, and allowed the user to play against another player or a computer.
- This project was worked on as a group which required the use of git and github for source control as well as developed collaboration skills. As a part of the design process, we created a UML to show relations between different classes and design patterns

### Handwritten Text Recognition/ Python, TensorFlow

- Developed a program to recognize handwritten text and convert it into a digital form using neural networks.
- Learned and utilized basic Machine Learning concepts such as how neural networks work, Logistic regression and turning pixel data into images (In Progress).